

Southern Ute Water Treatment Plant annual drinking water quality report

TEST RESULTS: The EPA requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. Some of our data (e.g., for organic contaminants), though representative, is more than one year old. Chemicals, which were tested for, but not detected, are included in the tables with ND in the level detected column. Although the Southern Ute Indian Tribe is regulated by the EPA, these testing requirements meet the criteria of the Colorado State Health Department.

CONTAMINANT SAMPLE		VIOLATION LEVEL	UNIT	DETECTED	MEASUREMENT	MCLG	MCL	LIKELY SOURCE OF CONTAMINATION
Microbiological Contaminants								
1.	Total Coliform Bacteria	2/month	N	Absent	P/A	0	Presence of col. bacteria in 5% of monthly samples	Naturally present in the environment
2.	Fecal coliform and E.coli	N/A	N	Not tested because absent in above test	P/A	0	A routine sample and repeat sample are total coliform positive, and one is also fecal coliform or E.coli positive	Human and animal fecal waste
3.	Turbidity	Percent of readings below MCLContinuous						
Radioactive Contaminants								
4.	Beta/photon emitters	11/03	N	ND	pCi/L	0	50	Decay of natural and man-made deposits
5.	Alpha emitters	11/06	N	1.44	pCi/L	0	15	Erosion of natural deposits
6.	Combined radium	Not Required			pCi/L	0	5	Erosion of natural deposits
Inorganic Contaminants								
7.	Antimony	2/05	N	<.0005	ppb	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
8.	Arsenic	10/08	N	<.0005	ppb	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
9.	Asbestos	6/11	N	<0.12	MFL	7	7	Decay of asbestos cement water mains; erosion of natural deposits
10.	Barium	2/05	N	0.0412	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
11.	Beryllium	2/05	N	<.0005	ppb	4	4	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
12.	Cadmium	2/05	N	<.00005	ppb	5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
13.	Chromium	2/05	N	<.0048	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14.	Copper	08/09	N	0.13	ppm	1.3	AL =1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
15.	Cyanide	7/11	N	<0.005	ppb	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
16.	Fluoride	5/11	N	0.75	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17.	Lead	08/10	N	<.002	ppm	0	AL =15	Corrosion of household plumbing systems, erosion of natural deposits
18.	Mercury (inorganic)	2/05	N	<.0002	ppb	2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
19.	Nitrate / Nitrite (as Nitrogen)	8/11	N	<0.02	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
20.	Selenium	2/05	N	<.0135	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
21.	Thallium	2/05	N	<.00005	ppb	0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories
Synthetic Organic Contaminants including Pesticides and Herbicides								
22.	2,4-D	6/11	N	<0.1	ppb	70	70	Runoff from herbicide used on row crops
23.	2,4,5-TP (Silvex)	6/11	N	<0.1	ppb	50	50	Residue of banned herbicide
24.	Acrylamide	Not Required			N/A	0	TT	Added to water during sewage/wastewater treatment
25.	Alachlor	6/11	N	<0.1	ppb	0	2	Runoff from herbicide used on row crops
26.	Atrazine	6/11	N	<0.1	ppb	3	3	Runoff from herbicide used on row crops
27.	Benzo(a)pyrene (PAH)	6/11	N	<0.02	nanograms/l	0	200	Leaching from linings of water storage tanks and distribution lines
28.	Carbofuran	6/11	N	<0.9	ppb	40	40	Leaching of soil fumigant used on rice and alfalfa
29.	Chlordane	6/11	N	<0.1	ppb	0	2	Residue of banned termiticide
30.	Dalapon	6/11	N	<1.0	ppb	200	200	Runoff from herbicide used on rights of way
31.	Di (2-ethylhexyl) adipate	6/11	N	<0.6	ppb	400	400	Discharge from chemical factories
32.	Di (2-ethylhexyl) phthalate	6/11	N	<0.6	ppb	0	6	Discharge from rubber and chemical factories
33.	Dibromochloropropane	6/11	N	<0.01	ppt	0	200	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
34.	Dinoseb	10/5	N	<0.1	ppb	7	7	Runoff from herbicide use on soybeans and vegetables
35.	Diquat	6/11	N	<0.4	ppb	20	20	Runoff from herbicide use
36.	Dioxin [2,3,7,8-TCDD]	10/05	N	ND	ppq	0	30	Emissions from waste incineration and other combustion; discharge from chemical factories
37.	Endothall	6/11	N	<9.0	ppb	100	100	Runoff from herbicide use
38.	Endrin	6/11	N	<0.01	ppb	2	2	Residue of banned insecticide
39.	Epichlorohydrin	Not Required			N/A	0	TT	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
40.	Ethylene dibromide	6/11	N	<0.01	ppt	0	50	Discharge from petroleum refineries
41.	Glyphosate	6/11	N	<6.0	ppb	700	700	Runoff from herbicide use
42.	Heptachlor	6/11	N	<.04	ppt	0	400	Residue of banned termiticide
43.	Heptachlor epoxide	6/11	N	<0.02	ppt	0	200	Breakdown of heptachlor
44.	Hexachlorobenzene	6/11	N	<.1	Ppb	0	1	Discharge from metal refineries and agricultural chemical factories
45.	Hexachlorocyclo-pentadiene	6/11	N	<.1	Ppb	50	50	Discharge from chemical factories
46.	Lindane	6/11	N	<0.02	ppt	200	200	Runoff/leaching from insecticide used on cattle, lumber, gardens
47.	Methoxychlor	6/11	N	<0.1	ppb	40	40	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
48.	Oxamyl [Vydate]	6/11	N	<1.0	ppb	200	200	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
49.	PCBs [Polychlorinated biphenyls]	6/11	N	ND	ppt	0	500	Runoff from landfills; discharge of waste chemicals
50.	Pentachlorophenol	6/11	N	<0.04	ppb	0	1	Discharge from wood preserving factories
51.	Picloram	6/11	N	<0.1	ppb	500	500	Herbicide runoff
52.	Simazine	6/11	N	<0.07	ppb	4	4	Herbicide runoff
53.	Toxaphene	6/11	N	<1.0	ppb	0	3	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Contaminants								
54.	Benzene	6/11	N	<1	ppb	0	5	Discharge from factories; leaching from gas storage tanks and landfills
55.	Carbon tetrachloride	6/11	N	<1	ppb	0	5	Discharge from chemical plants and other industrial activities
56.	Monochlorobenzene	6/11	N	<1	ppb	100	100	Discharge from chemical and agricultural chemical factories
57.	o-Dichlorobenzene	6/11	N	<1	ppb	600	600	Discharge from industrial chemical factories
58.	p-Dichlorobenzene	6/11	N	<1	ppb	75	75	Discharge from industrial chemical factories
59.	1,2 Dichloroethane	6/11	N	<1	ppb	0	5	Discharge from industrial chemical factories.
60.	1,1 – Dichloroethylene	6/11	N	<1	ppb	7	7	Discharge from industrial chemical factories
61.	cis-1,2-Dichloroethylene	6/11	N	<1	ppb	70	70	Discharge from industrial chemical factories
62.	trans – 1,2 –Dichloroethylene	6/11	N	<1	ppb	100	100	Discharge from industrial chemical factories
63.	Dichloromethane	6/11	N	<1	ppb	0	5	Discharge from pharmaceutical and chemical factories
64.	1,2-Dichloropropane	6/11	N	<1	ppb	0	5	Discharge from industrial chemical factories
65.	Ethylbenzene	6/11	N	<1	ppb	700	700	Discharge from petroleum refineries
66.	Styrene	6/11	N	<1	ppb	100	100	Discharge from rubber and plastic factories; leaching from landfills
67.	Tetrachloroethylene	6/11	N	<1	ppb	0	5	Leaching from PVC pipes; discharge from factories and dry cleaners
68.	1,2,4 –Trichlorobenzene	6/11	N	<1	ppb	70	70	Discharge from textile-finishing factories
69.	1,1,1 – Trichloroethane	6/11	N	<1	ppb	200	200	Discharge from metal degreasing sites and other factories
70.	1,1,2 –Trichloroethane	6/11	N	<1	ppb	3	5	Discharge from industrial chemical factories
71.	Trichloroethylene	6/11	N	<1	ppb	0	5	Discharge from metal degreasing sites and other factories
72.	TTHM [Total trihalomethanes]	8/11	N	35.4	ppb	0	80	By-product of drinking water chlorination
73.	Toluene	6/11	N	<1	ppm	1	1	Discharge from petroleum factories
74.	Vinyl Chloride	6/11	N	<1	ppb	0	2	Leaching from PVC piping; discharge from chemical factories
75.	Xylenes	6/11	N	<3	ppm	10	10	Discharge from petroleum factories; discharge from chemical factories

NO VIOLATIONS OCCURRED IN ALL OF THE ABOVE TESTING PARAMETERS FOR THE SOUTHERN UTE TRIBE’S WATER SUPPLY IN 2011.